



Tech Rep On a Disk (TROD)

By: Mr. Jim Broyles

Tech Rep On a Disk (TROD), Version 2.0, is an Expert System diagnostic and troubleshooting software package that duplicates the human mental process in solving problems and making predictions. TROD consists of 41 easy to use individual computer programs that can assist Sailors in troubleshooting and provide recommendations for repairing ship equipment problems. The Sailor simply enters the required system information and the program produces recommendations that describe how to troubleshoot and repair the equipment problem(s). The basis of an Expert System is the knowledge of human experts, which in this case are the engineers and technicians that provide technical fleet support. TROD programs were developed by Fleet Technical Support Centers (FTSCs) in conjunction with In-Service Engineering Agents (ISEAs) and have been approved by ISEAs and Life Cycle Managers (LCMs) for shipboard use. They have also been incorporated in the Navy Planned Maintenance System (PMS) process. TROD should be used by fleet and fleet assets to address ship equipment problems prior to requesting technical assistance.

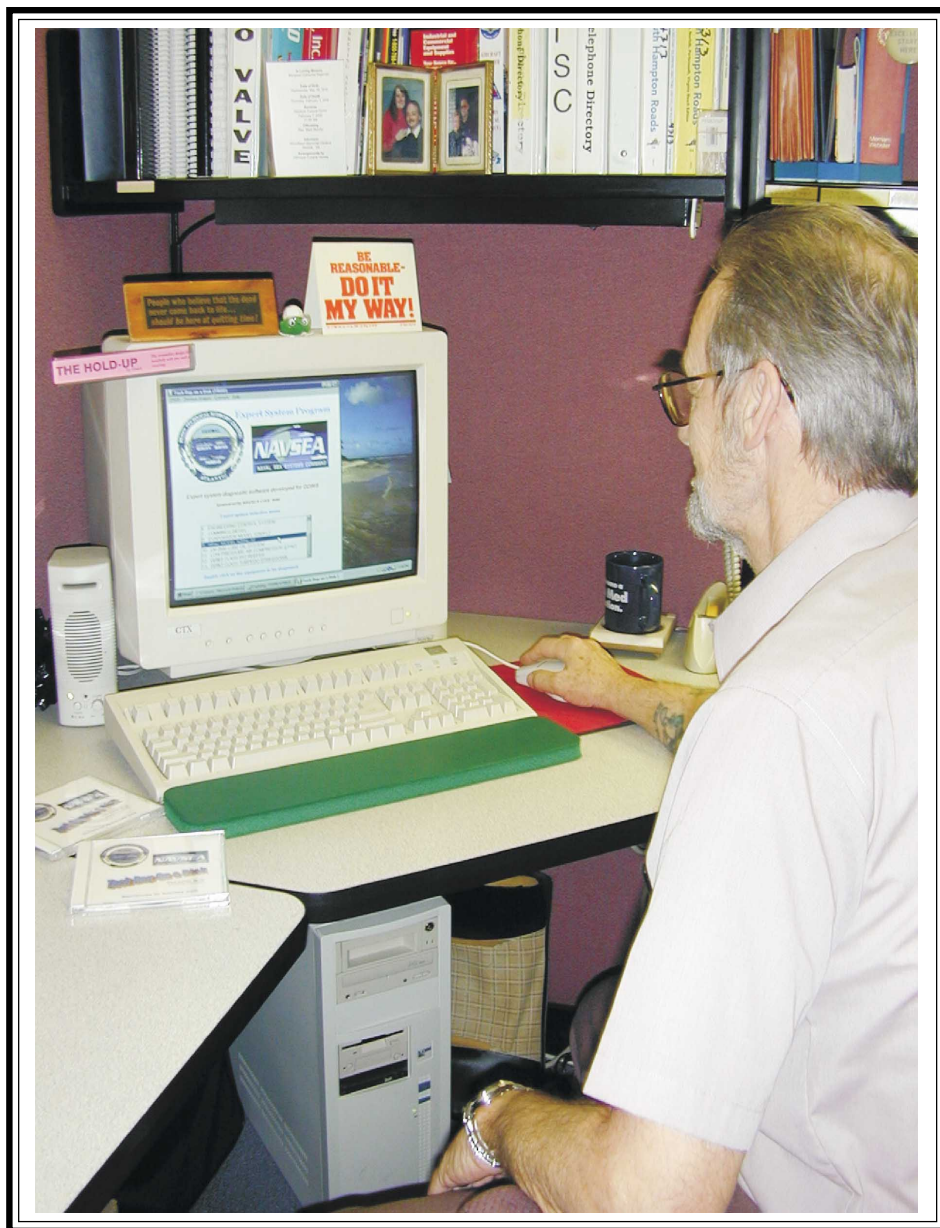
TROD Objectives

- to retain the corporate knowledge of fleet support engineers and technicians
- to support the Chief of Naval Operations (CNO) mandated Condition Based Maintenance (CBM) philosophy
- to provide an affordable stand-alone tool that can be utilized by

fleet and shore personnel without special equipment or procedures to enhance their abilities, maintain operational readiness and

attain maintenance self-sufficiency

- to capture machinery history



Don Harkness, Code 4313, begins searching for a diagnostic problem solution using a TROD computer disk



Tech Rep On a Disk (TROD) (cont)

TROD Version 2.0 addresses the following systems:

- * Air Conditioning Plant
- * Anchor Windlass System
- * B&A Cranes
- * Cathodic Protection
- * Control Pitch Propeller
- * Cummins Diesel Engine
- * Degaussing
- * Electronic Control Systems
- * Evaporator
- * Fin Stabilizer
- * Generator Grooming/Resurf
- * Gimble Trip Throttle Valve
- * High Pressure Air Compressors
- * High Pressure Dehydrators
- * LM2500 Lube Oil System
- * Low Pressure Air Compressors
- * Low Pressure Dehydrators
- * Lube Oil Purifiers
- * Oily Water Separator
- * Refrigeration Plant
- * Stern Gate
- * Torpedo Strikedown



To request a copy of the TROD installation software CD, contact FTSCANT at (757)444-3872, Ext. 1421, Fax (757)444-2799 or email: trod@ftsclant.navy.mil.

HARDWARE REQUIREMENTS:

- IBM PC, Pentium 200, 64MB RAM, Windows NT / 98 / 95
- Hard disk requirements:
- 250MB (Shore/100MB (Typical))
- Recommended screen settings: 800 x 600 pixels, true color, small fonts

TROD is maintained by FTSCANT Code 4313 and is sponsored by NAVSEA 04M. TROD can be installed from the world wide web with equipment meeting the following specifications or by using the TROD installation software CD.

To download TROD from the Internet, visit the Integrated Maintenance, Logistics, and Readiness Metrics site at: www.maintenance.navy.mil, select **Downloads** from the main menu, then **Tech Rep on a Disk (TROD)**. To obtain a User Name and Password, select **User Registration**.

Author: Mr. Jim Broyles is the Engineering Controls Branch Head, Code 4313 at FTSCANT Norfolk. He may be reached at (757)444-3872, ext. 1421, DSN 564-3872, ext. 1421 or by email at james_broyles@ftsclant.navy.mil.